



Application No.: 10/588,052

Supplemental Response Dated: March 6, 2008

Replacement Sheet

ctg	ttg	ctg	atc	aac	ttt	ttc	atc	gct	gtt	ctg	gga	gtg	ata	tca	ctg	48
Met	Leu	Leu	Ile	Asn	Phe	Phe	Ile	Ala	Val	Leu	Gly	Val	Ile	Ser	Leu	
1				5					10					15		
tct	cct	att	gtg	gtt	gct	cgt	tat	att	ctt	cga	cga	gat	tgc	act	aca	96
Ser	Pro	Ile	Val	Val	Ala	Arg	Tyr	Ile	Leu	Arg	Arg	Asp	Cys	Thr	Thr	
			20					25					30			
gtt	acg	gtc	ttg	tcc	tcc	cct	gag	tct	gtg	acg	agt	tcg	aac	cat	gtt	144
Val	Thr	Val	Leu	Ser	Ser	Pro	Glu	Ser	Val	Thr	Ser	Ser	Asn	His	Val	
			35				40					45				
cag	cta	gcc	agt	cat	gag	atg	tgc	gac	agt	acc	ttg	tca	gcg	tcc	ctt	192
Gln	Leu	Ala	Ser	His	Glu	Met	Cys	Asp	Ser	Thr	Leu	Ser	Ala	Ser	Leu	
	50					55					60					
tat	atc	tac	aat	gat	gat	tat	gat	aag	att	gtg	aca	ctt	tat	tat	ctt	240
Tyr	Ile	Tyr	Asn	Asp	Asp	Tyr	Asp	Lys	Ile	Val	Thr	Leu	Tyr	Tyr	Leu	
65					70					75					80	
aca	tcg	tcg	ggc	aca	act	ggg	tcc	gta	aca	gcg	tct	tat	tct	tct	agt	288
Thr	Ser	Ser	Gly	Thr	Thr	Gly	Ser	Val	Thr	Ala	Ser	Tyr	Ser	Ser	Ser	
			85						90					95		
ttg	agt	aac	aac	tgg	gaa	ttg	tgg	tct	ctc	tcg	gct	ccg	gct	gca	gat	336
Leu	Ser	Asn	Asn	Trp	Glu	Leu	Trp	Ser	Leu	Ser	Ala	Pro	Ala	Ala	Asp	
			100					105					110			
gct	gtc	gag	atc	act	gga	gct	agt	tat	gta	gac	agc	gat	gca	tct	gcg	384
Ala	Val	Glu	Ile	Thr	Gly	Ala	Ser	Tyr	Val	Asp	Ser	Asp	Ala	Ser	Ala	
		115					120					125				
aca	tac	gcc	acg	tct	ttt	gat	ata	cct	ctt	act	acc	acg	aca	acg	tcg	432
Thr	Tyr	Ala	Thr	Ser	Phe	Asp	Ile	Pro	Leu	Thr	Thr	Thr	Thr	Thr	Ser	
	130					135					140					
tcg	tct	tct	gct	agt	gcg	act	tca	aca	tct	agt	cta	acc	aca	aca	tct	480
Ser	Ser	Ser	Ala	Ser	Ala	Thr	Ser	Thr	Ser	Ser	Leu	Thr	Thr	Thr	Ser	
145					150				155						160	
agt	gtt	tcc	att	tcg	gtg	tcc	gtc	cct	aca	gga	aca	gct	gca	aat	tgg	528
Ser	Val	Ser	Ile	Ser	Val	Ser	Val	Pro	Thr	Gly	Thr	Ala	Ala	Asn	Trp	
				165					170					175		
cga	ggt	agg	gct	atc	tat	cag	atc	gtg	act	gat	aga	ttt	gca	cgc	act	576
Arg	Gly	Arg	Ala	Ile	Tyr	Gln	Ile	Val	Thr	Asp	Arg	Phe	Ala	Arg	Thr	
			180					185					190			

FIG. 1a

gac ggc tcc acc aca tat tta tgc gat gtt acc gat agg gtc tat tgc	624
Asp Gly Ser Thr Thr Tyr Leu Cys Asp Val Thr Asp Arg Val Tyr Cys	
195 200 205	
gga ggg tct tat cag ggg att atc aat atg ctg gat tac atc caa ggc	672
Gly Gly Ser Tyr Gln Gly Ile Ile Asn Met Leu Asp Tyr Ile Gln Gly	
210 215 220	
atg ggc ttt act gct att tgg att tct cct ata gtg gaa aat att ccc	720
Met Gly Phe Thr Ala Ile Trp Ile Ser Pro Ile Val Glu Asn Ile Pro	
225 230 235 240	
gat gac acc gga tac ggt tac gca tat cat ggt tat tgg atg aaa gat	768
Asp Asp Thr Gly Tyr Gly Tyr Ala Tyr His Gly Tyr Trp Met Lys Asp	
245 250 255	
atc ttc gcc ctg aat aca aat ttt ggt act gca gac gat ttg ata gcg	816
Ile Phe Ala Leu Asn Thr Asn Phe Gly Thr Ala Asp Asp Leu Ile Ala	
260 265 270	
ttg gct acg gaa ttg cat aat cgc ggc atg tac ttg atg gtt gat att	864
Leu Ala Thr Glu Leu His Asn Arg Gly Met Tyr Leu Met Val Asp <u>Ile</u>	
275 280 285	
gtt gtc aat cac ttt gct ttc tca gga agt cat gcc gac gtg gac tac	912
<u>Val Val Asn His</u> Phe Ala Phe Ser Gly Ser His Ala Asp Val Asp Tyr	
290 295 300	
tct gaa tat ttc ccg tat tcg tcc cag gat tat ttt cat tca ttt tgc	960
Ser Glu Tyr Phe Pro Tyr Ser Ser Gln Asp Tyr Phe His Ser Phe Cys	
305 310 315 320	
tgg att aca gat tac tcg aat cag aca aac gtt gag cag tgc tgg ctt	1008
Trp Ile Thr Asp Tyr Ser Asn Gln Thr Asn Val Glu Gln Cys Trp Leu	
325 330 335	
ggc gac gat act gtt cct ctc gtg gac gtc aat acc caa ctt gac acc	1056
Gly Asp Asp Thr Val Pro Leu Val Asp Val Asn Thr Gln Leu Asp Thr	
340 345 350	
gtg aaa agt gaa tat caa tcc tgg gtt caa gaa ctt ata gct aat tac	1104
Val Lys Ser Glu Tyr Gln Ser Trp Val Gln Glu Leu Ile Ala Asn Tyr	
355 360 365	
tct att gac ggc cta aga att gac acc gtc aag cac gtg cag atg gat	1152
Ser Ile Asp Gly <u>Leu Arg Ile Asp Thr Val Lys His</u> Val Gln Met Asp	
370 375 380	

FIG. 1b

ttt	tgg	gca	cca	ttt	caa	gag	gct	gca	ggg	att	tac	gcc	ggt	ggg	gaa	1200
Phe	Trp	Ala	Pro	Phe	Gln	Glu	Ala	Ala	Gly	Ile	Tyr	Ala	Val	Gly	<u>Glu</u>	
385					390					395					400	
gta	ttc	gac	ggg	gat	cca	tcc	tac	aca	tgt	cca	tat	cag	gaa	aat	ctt	1248
Val	<u>Phe</u>	<u>Asp</u>	Gly	Asp	Pro	Ser	Tyr	Thr	Cys	Pro	Tyr	Gln	Glu	Asn	Leu	
				405					410					415		
gac	ggg	gtc	ttg	aat	tat	cct	ggt	tat	tat	cct	gtc	gtc	tct	gcg	ttt	1296
Asp	Gly	Val	Leu	Asn	Tyr	Pro	Val	Tyr	Tyr	Pro	Val	Val	Ser	Ala	Phe	
			420					425					430			
gag	agt	gtt	agt	ggg	tcg	gtc	tcc	tcg	tta	gtc	gat	atg	att	gat	acg	1344
Glu	Ser	Val	Ser	Gly	Ser	Val	Ser	Ser	Leu	Val	Asp	Met	Ile	Asp	Thr	
		435					440					445				
ctc	aag	tct	gaa	tgc	acc	gac	act	act	ctc	cta	ggc	tcc	ttt	cta	gag	1392
Leu	Lys	Ser	Glu	Cys	Thr	Asp	Thr	Thr	Leu	Leu	Gly	Ser	Phe	<u>Leu</u>	<u>Glu</u>	
	450					455					460					
aat	caa	gat	aat	ccg	cga	ttc	cct	agc	tac	act	tct	gat	gag	tct	tta	1440
<u>Asn</u>	<u>Gln</u>	<u>Asp</u>	Asn	Pro	Arg	Phe	Pro	Ser	Tyr	Thr	Ser	Asp	Glu	Ser	Leu	
465					470					475					480	
att	aaa	aat	gcg	atc	gct	ttc	act	atg	ctc	tca	gac	ggc	att	ccc	ata	1488
Ile	Lys	Asn	Ala	Ile	Ala	Phe	Thr	Met	Leu	Ser	Asp	Gly	Ile	Pro	Ile	
				485					490					495		
att	tat	tac	ggg	cag	gag	caa	ggc	ctc	aat	ggg	gga	aac	gat	ccc	tat	1536
Ile	Tyr	Tyr	Gly	Gln	Glu	Gln	Gly	Leu	Asn	Gly	Gly	Asn	Asp	Pro	Tyr	
			500					505					510			
aat	cga	gag	gcg	ctt	tgg	ctt	acg	ggc	tac	tcc	aca	acg	tcg	acg	ttc	1584
Asn	Arg	Glu	Ala	Leu	Trp	Leu	Thr	Gly	Tyr	Ser	Thr	Thr	Ser	Thr	Phe	
		515					520					525				
tac	aaa	tac	att	gcg	tcg	ttg	aat	cag	att	aga	aat	cag	gct	ata	tac	1632
Tyr	Lys	Tyr	Ile	Ala	Ser	Leu	Asn	Gln	Ile	Arg	Asn	Gln	Ala	Ile	Tyr	
	530					535					540					
aaa	gat	gat	act	tat	ctc	aca	tat	cag	aac	tgg	ggt	att	tat	tcg	gat	1680
Lys	Asp	Asp	Thr	Tyr	Leu	Thr	Tyr	Gln	Asn	Trp	Val	Ile	Tyr	Ser	Asp	
545					550					555					560	
tcc	acg	aca	ata	gca	atg	cgg	aaa	ggg	ttt	aca	ggg	aac	caa	ata	att	1728
Ser	Thr	Thr	Ile	Ala	Met	Arg	Lys	Gly	Phe	Thr	Gly	Asn	Gln	Ile	Ile	
				565					570					575		

FIG. 1c

acg	gtt	ctg	tca	aat	ctt	ggg	acc	agt	ggc	agt	tcg	tac	act	ttg	acg	1776
Thr	Val	Leu	Ser	Asn	Leu	Gly	Thr	Ser	Gly	Ser	Ser	Tyr	Thr	Leu	Thr	
			580					585					590			
ctt	tcg	aat	acg	gga	tat	acc	gca	tct	agc	gtt	gta	tat	gag	atc	ttg	1824
Leu	Ser	Asn	Thr	Gly	Tyr	Thr	Ala	Ser	Ser	Val	Val	Tyr	Glu	Ile	Leu	
		595					600					605				
aca	tgc	aca	gct	gtg	act	gtg	gat	tcg	tct	ggg	aat	ttg	gca	gtg	ccg	1872
Thr	Cys	Thr	Ala	Val	Thr	Val	Asp	Ser	Ser	Gly	Asn	Leu	Ala	Val	Pro	
	610					615					620					
atg	tcc	agt	ggc	cta	cca	aaa	gtc	ttt	tat	cag	gaa	tcg	caa	ctg	gtt	1920
Met	Ser	Ser	Gly	Leu	Pro	Lys	Val	Phe	Tyr	Gln	Glu	Ser	Gln	Leu	Val	
625					630					635					640	
ggc	tct	gga	atc	tgc	tcc	atg	tagag									1946
Gly	Ser	Gly	Ile	Cys	Ser	Met										
				645												

FIG. 1d